CLAIMS

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is as follows:

1	1. Apparatus to determine prices of products priced by weight comprising:
2	a camera for detecting and identifying a product by type;
3	means for determining a volume of the product based on image
4	information from the camera;
5	a database of lookup tables of densities of a plurality of products; and
6	a computer terminal which receives product type and volume of the
7	product information and accesses the database to determine a density for the
8	product, the computer terminal computing a weight of the product as a
9	function of volume and density of the product and then computing a price of
10	the product as a function of price/weight ratio.
1	2. The apparatus recited in claim 1, wherein the apparatus is part of a checkou
2	station in a retail store.
1	3. The apparatus recited in claim 2, further comprising a display connected to
2	the computer which displays the calculated price of the product.
1	4. The apparatus recited in claim 3, wherein the computer generates a running
2	total of prices for a plurality of products as part of a single transaction and
3	displays the running total on the display.
1	5. The apparatus recited in claim 3, further comprising a connected to the
2	computer which prints the running total.

1	6. The apparatus recited in claim 1, wherein the computer terminal categorizes
2	the product within one of a plurality of weight ranges, the price of the product
3	being a function of the weight ranges.
1	7. A method of determining a product weight and calculating price comprising
2	the steps of:
3	detecting a product with a camera;
4	identifying the product by type;
5	determining a volume of the product from an image of the product;
6	accessing a database of densities of a plurality of products and
7	determining a density for the detected and identified product;
8	calculating a weight of the product as a function of volume and density
9	of the product; and
10	calculating a price of the product as a function of the calculated weight
11	and price/weight ratio.
1	8. The method recited in claim 7, further comprising the step of displaying the
2	calculated price of the product.
1	9. The method recited in claim 8, further comprising the step of generating a
2	running total of prices for a plurality of products as part of a single transaction.
1	10. The method recited in claim 9, further comprising the step of printing the
2	running total upon completing of the transaction.
1	11. The method recited in claim 7, further comprising the step of categorizing
2	the product within one of a plurality of weight ranges, the price of the product

3 being a function of the weight ranges.